

AN 117:261595 HCA Full-text
TI Electrostatographic liquid developer
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SO Jpn. Kokai Tokkyo Koho, 29 pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04046354	A2	19920217	JP 1990-153859	19900614
	JP 2640165	B2	19970813		
PRAI	JP 1990-153859		19900614		

AB In the title electrostatog. liquid developer obtained by dispersing resin particles in a nonaq. solvent of elec. resistivity $\geq 10^9 \Omega\text{-cm}$ and dielec. constant ≤ 3.5 , the resin particles are obtained by polymerizing a monofunctional monomer, soluble in the nonaq. solvent before polymerization but insol. upon polymerization, in the presence of a dispersion- stabilizing resin and an oligomer. The dispersion-stabilizing resin is an A-B block copolymer (weight-average mol. weight $1 + 10^4 - 5 + 10^5$) which is soluble in the nonaq. solvent used and comprises an A block employing the polymer component $[\text{CHa}_1\text{Ca}_2(\text{V}_0\text{-R}_0)]$ [$\text{V}_0 = \text{CO}_2, \text{OCO}, (\text{CH}_2)_y\text{CO}_2, (\text{CH}_2)_y\text{OCO}, \text{O}$ ($y = 1-3$); $\text{R}_0 = \text{C} \geq 10$ aliphatic; $\text{a}_1, 2 = \text{H, halo, CH, hydrocarbyl, CO}_2\text{R}_1$ or CO_2R_1 with interposed hydrocarbon group ($\text{R}_4 = \text{H, hydrocarbon group}$)], and a B block based on a polymer component containing polar groups and(or) a monofunctional monomer. The oligomer (number-average mol. weight $\leq 1 + 10^4$) has the structural repeating unit $[\text{CHe}_1\text{Ce}_2(\text{E}_1\text{-G}_1)]$ [$\text{E}_1 = \text{CO}_2, \text{OCO}, (\text{CH}_2)_l\text{CO}_2, (\text{CH}_2)_l\text{OCO}, \text{O, SO}_2, \text{CONHCO}_2, \text{CONHCONH, COND}_1, \text{SO}_2\text{ND}_1$, phenylene ($\text{D}_1 = \text{H, C}_1\text{-22 hydrocarbon, l = 1-3}$); $\text{G}_1 = \text{C}_1\text{-22 hydrocarbon group which may contain interposed groups; e}_1, 2 = \text{H, halo, CN, hydrocarbon, CO}_2\text{D}_3$, hydrocarbon-interposed CO_2D_3 ($\text{D}_3 = \text{H, hydrocarbon group}$)] and is terminated at 1 end only by the claimed polar groups. The liquid developer has good redispersibility, shelf life, stability, image reproducibility, and fixability.

IC ICM G03G009-13

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other

Reprographic Processes)

ST electrostatog liq developer acrylic resin

IT Acrylic polymers, uses

RL: USES (Uses)
(electrostatog. liquid developer containing)

IT Electrography

(liquid developer for, acrylic polymer latex containing)

IT Electrophotographic developers

(liquid, acrylic polymer latex for)

IT 9003-53-6, Styrene homopolymer 25035-18-1 25086-89-9,
 Vinylacetate-N-vinylpyrrolidone copolymer 25609-89-6, Crotonic
 acid-vinylacetate copolymer 139357-86-1 139357-87-2 139357-88-
 3 139357-89-4 139406-18-1 143646-39-3 143646-40-6 143646-41-7
 143646-42-8 143672-55-3 143672-56-4
 RL: USES (Uses)
 (dispersion-stabilizing resin, for latex preparation)
 IT 139357-91-8 139357-92-9 143729-51-5
 RL: USES (Uses)
 (dispersion-stabilizing resin, latex preparation using)
 IT 9003-20-7
 RL: USES (Uses)
 (latex containing, electrostatog. liquid developer from)
 IT 126639-06-3P 139357-82-7DP, hydrolysis product 139357-84-9DP,
 reduction
 product 139357-85-0P 143646-29-1DP, hydrolysis product
 RL: TEM (Technical or engineered material use); PREP (Preparation);
 USES
 (Uses)
 (preparation of, as dispersion-stabilizing resin)
 IT 67076-30-6P 79964-36-6P 127939-27-9P 132612-34-1P 139720-73-
 3P
 140693-69-2P 140693-79-4P 140693-84-1P 140708-09-4P 140708-
 10-7P
 140863-46-3P 140863-47-4P 140863-48-5P 140863-50-9P 140863-
 51-0P
 140863-52-1P 140863-57-6P 140863-60-1P 140863-68-9P 140863-
 72-5P
 140863-75-8P 140863-78-1P 140863-81-6P 140888-43-3P 141431-
 76-7P
 141472-43-7P 141472-44-8P 141492-10-6P 143568-15-4DP, polar
 group
 terminated 144644-55-3P 144644-58-6P 144644-59-7P 144644-60-
 0P
 RL: PREP (Preparation)
 (preparation of, as oligomer)